USER MANUAL

Filtertrolley 2.0 MED

ULTJUMBO®

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1. Preface

The ULT Jumbo Filtertrolley 2.0 MED is intended for use in situations where laser or electrosurgical procedures generate surgical plume, viruses and bacteria in the form of dust, floating particles, gases and fumes. This smoke can be a respiratory irritant to the surgical team and to the patients.

In order to assure the safety of employees, law states: These materials have to be removed from the air!

This is just the right task for the ULTJUMBO® Filtertrolley 2.0. It combines features such as high mobility, low weight, and noiselessness in an optimal manner. These qualities are made possible by innovative components and the use of synthetic materials.

The device impresses with its functional, up-to-date, and appealing design.

It is suitable for hospital, clinic or doctor's office environment.

Work without draft

The ULTJUMBO® Filtertrolley 2.0 removes air borne hazardous substances directly from the place of their origin and filters them instantaneously. With supreme power. With the lowest possible energy consumption. Noiseless and adaptable. The extreme filter efficiency guarantees purest air quality. A loss of heat energy belongs to the past.

The filtered air is instantly returned to the working environment – without any form of draft.

Assignment decisive

A special feature: The ULTJUMBO® Filtertrolley 2.0 is a basic device designed for many applications. It can be variably modified with different filters and suction elements.
Fields of applications: medical laser surgery and electrocautery, laboratories, sterizilisation rooms, patient's awakening rooms, anaestesthesia rooms , dentist's surgeries.

2. Use and application

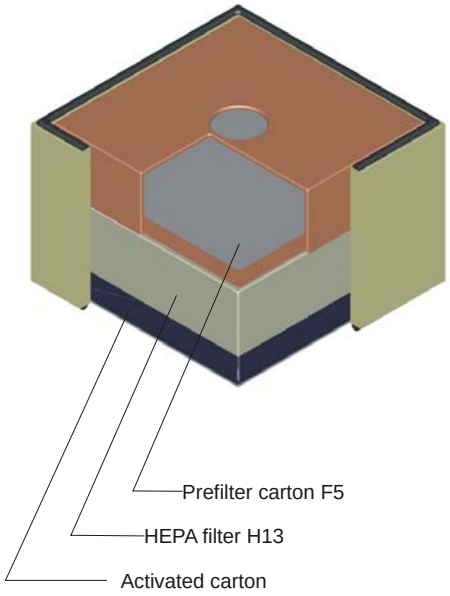
The ULTJUMBO® Filtertrolley 2.0 MED is a versatile filter device.

Type	Filter system	Use / application
MED	Multi-level filter-system	Medical laser surgery and electrocautery

For proper application please consult the producer's operation, user, and maintenance instructions.

Every use beyond these instructions is not as agreed. The manufacturer is therefore not liable for damages resulting from improper operation.

Filter system:



Filter system: multi-level filter
- pre-filter carton F 5
- HEPA filter H 13 (ULPA filter U 15 optional)
- adsorption - gas filter

The combination of pre-, absolute- and adsorption filters guarantees an efficiency of more than 99% due to multiple cleaning stages, provided that the filter is maintained and replaced regularly.

3. Safety

Operate the ULTJUMBO® Filtertrolley 2.0 only as described in this user information; thereby, on hand dangers will not appear.

- The ULTJUMBO® Filtertrolley 2.0 is a state-of-the-art device and therefore save to operate. Nonetheless, there are remaining dangers, which can appear if untrained staff operates the device or if the user manual is not observed.

3.1. Workstation Safety

- Read the user manual, in particular the safety instructions, before installing and operating this device!

- Trained staff has to be determined by the supervisor for the operation and maintenance of the ULTJUMBO® Filtertrolley 2.0. Employees have to be instructed and trained by an authorised person before putting the device into operation for the first time. At this time, safety instructions, operation applications, and possible dangers have to be explained to the users.

- The device may only be operated, maintained, and repaired by authorised and trained staff.

- Any application that might threaten the safety of humans, the device, or working premises has to be refrained!

- The user is obliged to immediately report any changes of the device that might threaten its safe operation.

- Pay close attention to attached signs.

- Turn off and unplug the device at any break.

- In case of danger immediately switch off the device.

3.2 Safety Instructions

- The ULTJUMBO® Filtertrolley 2.0 may neither be used for vacuum cleaning nor for siphoning off liquid media!

- The device only works with alternating current. In addition, the ULTJUMBO® Filtertrolley 2.0 has to be protected with a 6A fuse against electrical damage!

- The ULTJUMBO® Filtertrolley 2.0 may not be used for sucking off gasses, steams, and dusts in explosive concentrations!

- Unplug power cable before opening the device!

- Always carry out disposal of worn out filter media according to valid waste regulations!

- Use only original substitute and spare parts of ULT AG!

- Improper use and alterations of the ULTJUMBO® Filtertrolley 2.0 may affect its safety.

- Never clean the appliance with a stream of liquid (hose etc.).

- Prevent damage to the power cable by not pulling, jamming, or running over it.

- Regularly examine the power cable for symptoms of damage.

- Do not use the machine if its power cable is damaged in any way. Use only original spare parts as a substitute for the power cable.

- Safety equipment for the prevention of accidents needs to be maintained regularly in order to observe § 39, paragraph 3, VBG 1. A safety check has to be carried out at least once a year in order to keep the unit running properly.

- Unplug the ULTJUMBO® Filtertrolley 2.0 after using, before cleaning/maintaining, and prior to repairing and replacing any parts.

- Do not suck off liquid media or flammable substances.

- If liquids or flammable substances are sucked off accidentally, instantly switch off the device because the filter may be damaged.

3.3 Remaining Risks

3.3.1. Accident Prevention – Mechanics

- All moving parts (fan, motor) are covered by securely mounted protection equipment. The cover can only be removed with the help of tools.

- Remaining Risk:
Serious injuries may occur if safety covers are removed while the device is still running.

3.3.2. Accident Prevention – Electrics

- All energized parts of the device are either isolated against touching or covered by securely mounted protection equipment, which can only be removed with the help of tools. The appliance complies with protection class I according to EN 60 335.

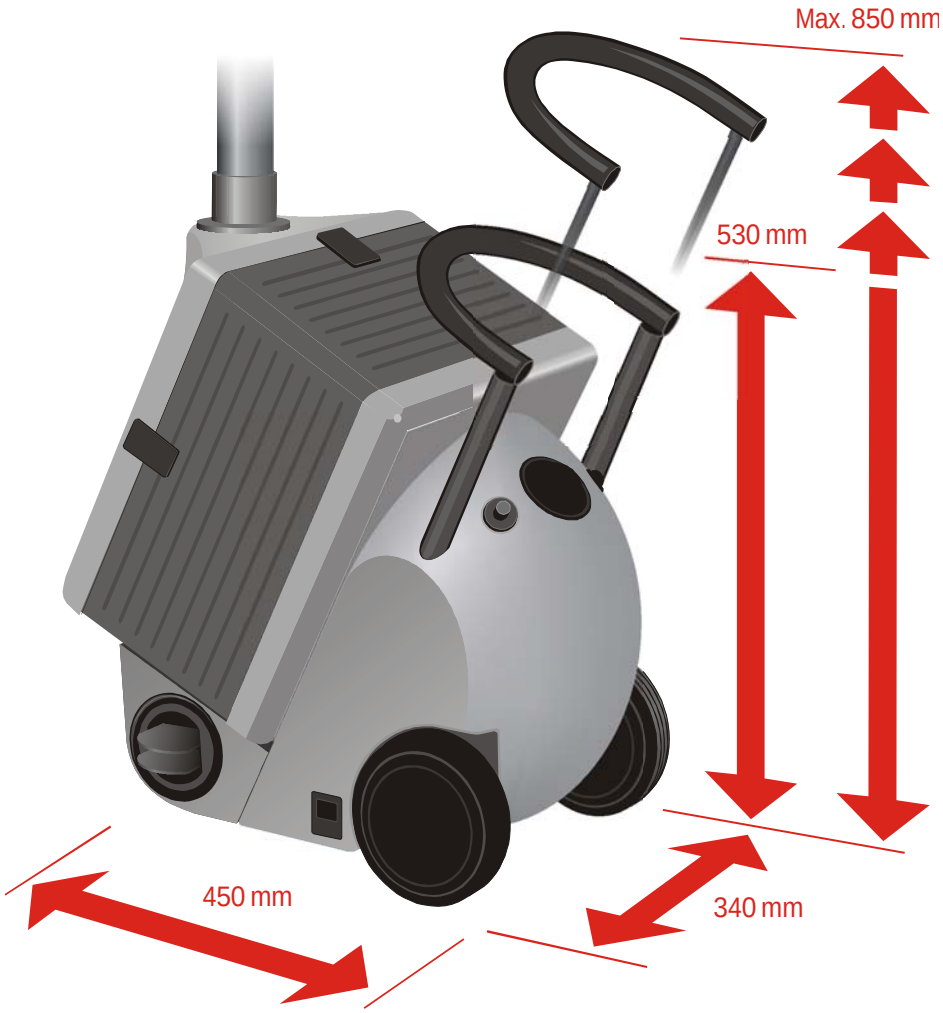
- Remaining Risk:
If safety covers are removed while the device is still running or not unplugged, serious injuries may occur resulting from electrical stroke.

3.3.3. Accident Prevention – Pollutants

- Only filters suitable for the device may be used. Do not run the appliance without or with damaged filters.

- **Remaining Risk:**
If damaged or unsuitable filters are used, serious dangers to health may occur.

4. Specifications / Technical Features

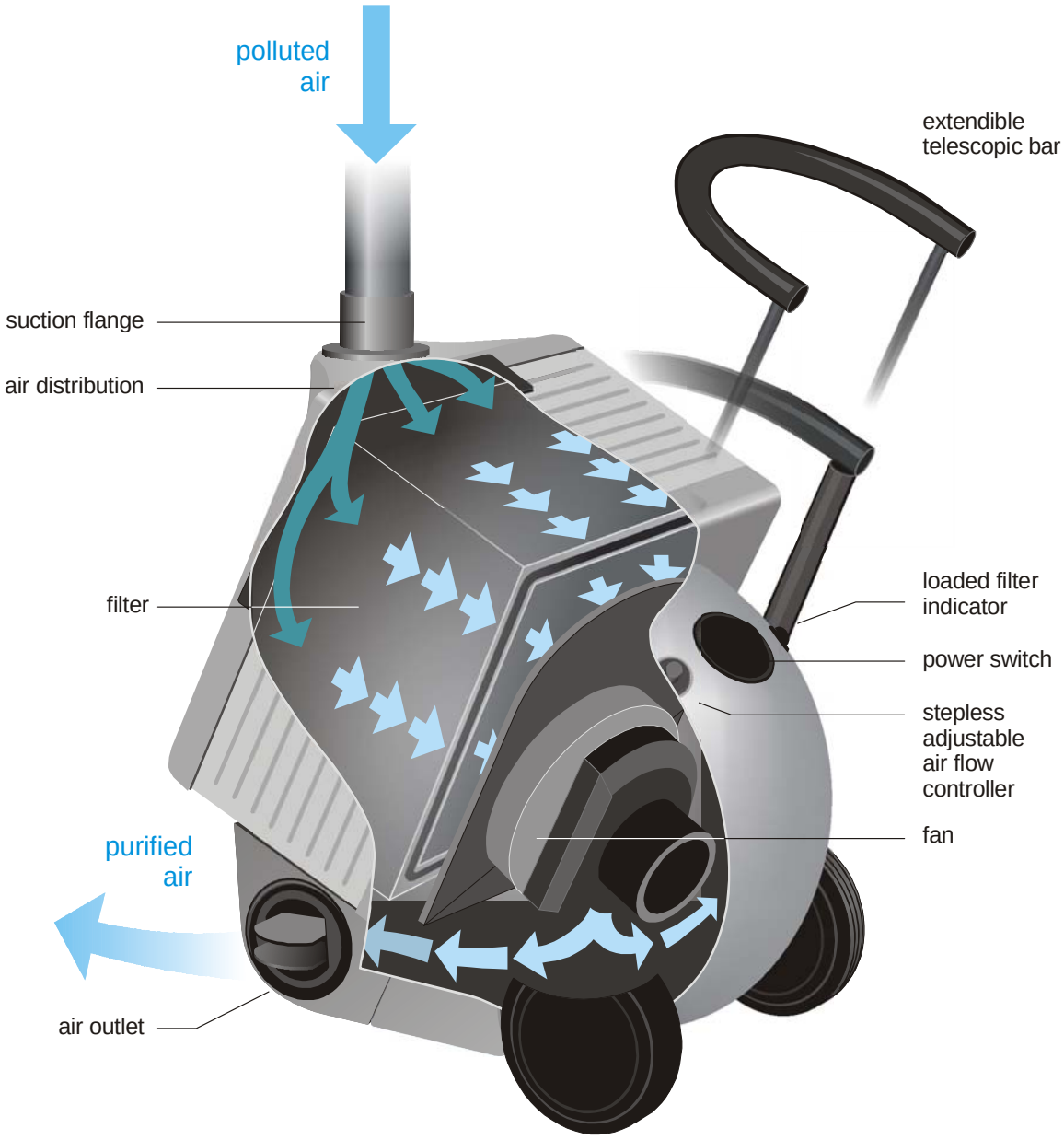


max. air flow:	170 m³/h
max. vacuum:	2,800 Pa
constant air flow:	80 m³/h at 1,400 Pa
electrical connection:	120/230 V/50/60 Hz
input power:	150 W
dimension:	450 x 340 x 530 mm
weight:	18 kg
noise level:	49 db (A)

material: ABS stroke tough (synthetic material),
chemical-resistant, corrosion-resistant
blow out direction adjustable
option: waste air business
additional equipment (option):
- V: continuously adjustable air flow controller
- F: loaded filter indicator

5. Design and Description

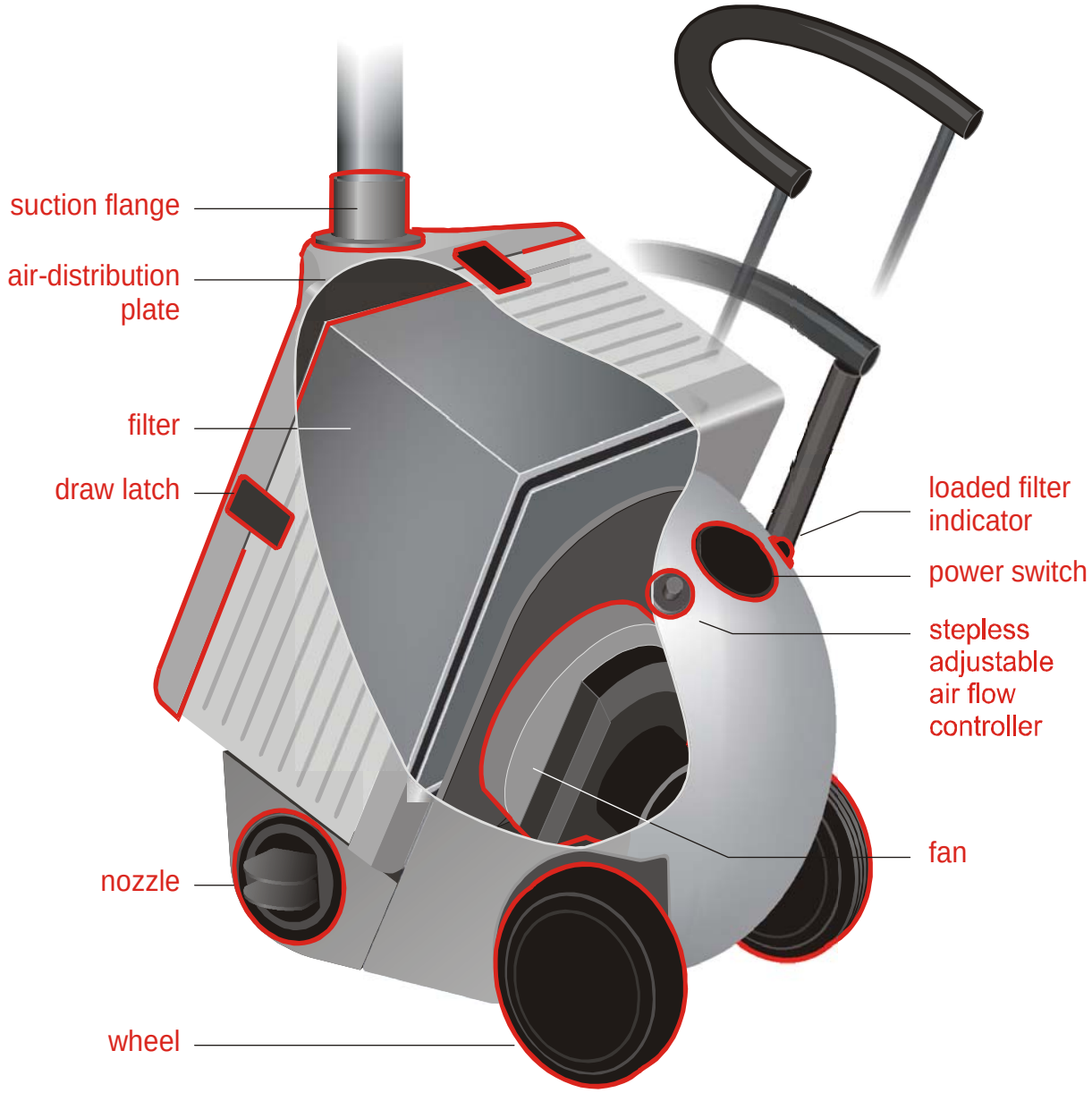
5.1. Operation



ULTJUMBO® Filtertrolley 2.0's built-in fan produces a vacuum at the suction flange or the respectively attached suction element. Air pollutants are immediately captured and sucked off at their place of origin.
The polluted air is led trough the filter, whereby it is cleaned. The manufacturer offers filter cassettes with special filter combinations for dusts, smokes, gases, and vapours.

The purified air is supplied back to the working premises trough an internal sound absorber and two lateral nozzles.

5.2. Parts Identification



6. Start-up

6.1. Initial Operation

Unpack the ULTJUMBO® Filtertrolley 2.0 and set it up.

- unlock the black draw latches on its side and take off the cover
- check the tightness of the filter cassette
- put the cover back onto the device and lock the draw latches

Attention: Never operate the device without a filter!

- Connect the device with an electrical outlet of alternating current and 230 V/50 Hz. Protect the electrical outlet with a fuse of at least 6A.
- Check whether the device type meets your requirements and suits your application.

6.2. Device Set Up and Connection

Set up the suction unit according to your work place. To safely capture all pollutants, position the suction element close to the place where the hazardous substances emergence.

6.3. Operation

Push the big black button on top of the ULTJUMBO® Filtertrolley 2.0 to turn the device on. Check whether the connections are made properly and whether the blow-out nozzles are open.

If your device possesses the optional airflow controller, you may adjust the suction capacity with the potentiometer.

The optionally installed “loaded filter indicator” shows the current state of the filter. As long as the LED glows green the ULTJUMBO® Filtertrolley 2.0 is in normal mode. The filters are saturated when the LED changes to red.
Then proceed as described in section 7.

7. Maintenance and Filter Replacement

The maintenance confines itself to the check of the filter contamination state and the replacement of the filter. Devices with the optionally installed “loaded filter indicator” signal with their LED the required filter replacement.

LED: -green- filter is in good condition

LED: -red- filter replacement necessary: - replacement of the pre-filter mat

If no improvement takes place:
- replacement of the whole filter

The picture illustrates a filter replacement in lying position. Before the filter can be taken out, the black draw latches have to be unlocked, and the cover needs to be removed.

Disposal: professional; according to valid regional regulations

Attention: The device has to be unplugged before repairs, maintenance, or filter replacements are carried out!

- The device is subject to inspection for portable electrical equipment.

- After each use the unit may be wiped down with a damp cloth (a soapy solution or germicidal may be applied sparingly)

8. Possible Malfunctions

Problem	Cause	Elimination of problem
- fan does not run	- no electrical power	- check mains voltage
- fan does not run	- malfunction of device or control electronic	- repair by a specialist (specialist dealer)
- not enough suction capacity (option “F” - LED glows red)	- filters are saturated - air passage is blocked	- filter replacement - check of air inlet and outlet
- bad filtration (option “F” - LED glows red)	- filters are clogged up - filters are not in the right position	- filter replacement - check filter installation (put it in the right position)

Attachment - Accessories

Suction arms

alternatively mounted either on the device or on separate desk/wall

Alsident S 50d: 50mm
Range: 550, 750, 950 or 1350mm

Alsident S 75d: 75mm
Range: 650, 900 or 1050mm

Suction elements

(matching the Alsident suction arms)

	S 50 in mm	S 75 in mm
suction tube	l = 210 l = 310	l = 250
suction nozzles	w = 200	w = 250
round hood	d = 200	d = 200
rectangular hood	l = 245 w = 220	l = 420 w = 320

Mounting elements for suction arms

desk mounting for Alsident S 50 and S 75
wall mounting for Alsident S 50 and S 75

Hoses

Connection hoses from the device to the suction element

Attachment – Wear and Spare Part List

Original spare parts from ULT AG

power switch
loaded filter indicator (LED)
potentiometer (volume flow controller)
power cable
power inlet socket
fan
control module

suction flange
blow-out nozzle
draw latch
wheel
wheel cover
telescopic bar
handle

filter see attachment filter list

To guarantee faultless device and operation safety, use only original spare parts from ULT AG.
Device warranty is void if spare parts from other manufacturers are used!

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Attachment - Filter List

Type	Description	
MED	multi-level filter cassette (complete)	
	multi-level filter cassette - HEPA filter H 13 and adsorption - gas filter	
	pre-filter carton F 5	1 pc.
	pre-filter carton F 5	10 pc.

Use only filters from ULT AG! Otherwise, the specified filter quality and quantity may not be reached.

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EC - Declaration of Conformity

according to Machinery Directive 2006/42/EG annex II No. 1A

Herewith, we declare that the following product type in its delivered state complies with the following relevant provisions:
EC-Machinery directive 2006/42/EG
Electromagnetic compatibility - directive 2004/108/EG

If the above mentioned machine is technically modified without our approval, this declaration shall no longer be applicable:

Description of machine:	Absaug- und Filteranlage
Type:	Jumbo Filtertrolley 2.0 / 2.1 / 2.2
Series No.	20YY ... (Year - Number)
Applied national technical standards and specifications:	DIN EN ISO 12100 part,2 DIN EN ISO 13857 DIN VDE 1000 DIN EN 60204-1

Karl Ullwer is the authorized representative for completion of the technical documentation

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place, date	Löbau, 02.01.2012
signature:	T. Heinitz

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